

What is claimed is:

1. An elastomeric foam article which is manufactured by dipping method, comprising at least one foam structure layer, or adhere with one or more substrate material layer.
- 5 2. The elastomeric foam article according to claim 1, wherein the foam structure layer having a density from about 0.07 g/cm³ to about 0.9 g/cm³.
3. The elastomeric foam article according to claim 1, wherein the foam structure layer is obtained by heating elastomeric
10 foamable material comprising thermally expandable microspheres to expand the volume of the elastomeric material.
4. The elastomeric foam article according to claim 3, wherein the elastomeric material is selected from the group
15 consisting of natural rubber, synthetic rubber, polyurethane, polyacrylate, polybutylene, polyvinyl chloride, polyethylene, polypropylene, polyvinyl acetate, a block copolymer of styrene and butadiene or the mixed.
5. The elastomeric foam article according to claim 3, wherein
20 the thermally expandable microspheres or foaming agent is about from 0.5% to about 10% by weight of total solid content of the foam structure layer.
6. The elastomeric foam article according to claim 1, wherein the foam structure layer is obtained by heating elastomeric
25 foamable material comprising foaming agent to expand

the volume of the elastomeric material.

7. The elastomeric foam article according to claim 1, wherein the substrate material is a waterproof elastomeric material which is selected from the group consisting of natural
5 rubber, synthetic rubber, polyurethane, polyacrylate, polybutylene, polyvinyl chloride, polyvinyl acetate, a block copolymer of styrene and butadiene or the mixed.
8. The elastomeric foam article according to claim 1, wherein the substrate material is selected from a group consisting
10 of stretchable natural, synthetic and blended yarn knitted fabrics.
9. The elastomeric foam article according to claim 1, wherein the elastomeric foam article having a wall thickness from about 50 microns to about 300 microns; and comprising at
15 least one foam structure layer adhere with at least one waterproof elastomeric material layer which at least one foam structure layer contacting with the mammalian tissue.
10. The elastomeric foam article according to claim 1, wherein the elastomeric foam article having a wall thickness from
20 about 100 microns to about 3000 microns; and comprising at least two foam structure layers which at least one foam structure layer contacting with mammalian tissue and at least one waterproof elastomeric material layer in between the foam structure layers.
- 25 11. The elastomeric foam article according to claim 1, wherein

the elastomeric foam article having a wall thickness from about 500 microns to about 3000 microns, comprising at least one foam structure layer adhere with a natural/synthetic yarn knitted fabrics which contacting with mammalian tissue, or at least one foam structure layer and one waterproof elastomeric material layer adhere with a natural/synthetic yarn knitted fabrics which contacting with mammalian tissue.

12. The elastomeric foam article which is manufactured by dipping method, wherein the dipping method comprising:

A. a desired shape mold with or without a natural/synthetic yarn knitted fabrics dip-coating in one or more solution comprising the waterproof elastomeric material or the elastomeric foamable material;

B. curing the waterproof elastomeric material layer or curing/foaming the elastomeric foamable material layer;

C. binding the different layers together; and

D. processing surface treatment onto the elastomeric foam article.

13. The elastomeric foam article according to claim 12, wherein the surface treatment comprises depositing a fine powder.

14. The elastomeric foam article according to claim 12,

wherein the surface treatment comprises raising a chlorine water.

15. The elastomeric foam article according to claim 12,
wherein the surface treatment comprises coating a
5 lubricating layer.

16. The elastomeric foam article according to claim 12,
wherein the surface treatment comprises flocking a
natural/synthetic fiber.